

# Swisspearl Patina NXT

Version: 12/25

External and internal wall and ceiling coverings

AC 90 / ASTM 1185 / EN 12467

## Patina Original NXT | Patina Rough NXT | Patina Structure NXT

*Swisspearl Patina Original NXT* has fine sanding lines on the surface. It comes in timeless colours, evolves and changes the expression of your building. These façade boards will patinate beautifully over time, adding an aesthetic look to the building design with some unique and subtle variations on the surface.

*Swisspearl Patina Rough NXT* is a rustic fibre cement board with a tough, textured surface. Behind its rugged exterior is the steady core of high-quality fibre cement – a material ideal for exterior and interior façades. Patina Rough NXT is a genuinely through-coloured board with a sand-blasted surface that gives an attractive, stone-effect finish to your building design.

The surface of *Patina Structure NXT* reveals a refined, natural rhythm created by subtle linear grooves. As light grazes the material, fine and versatile shadows dance across the texture, enhancing the architectural depth of each panel.



### Shading

Deviations in colour shades, both within the product and from product to product, are a natural part of the production process and underline the vibrant, expressive character of the material. Colour variation is measured on the production line using the CIELAB colour model, in which only the lightness parameter  $\Delta L$  is monitored:

$$\Delta E = \pm 2.5$$

### Colour Range\*

\*Restrictions may apply please check homepage

#### PATINA ORIGINAL NXT

- ⋯ hydrophobized
- coloured through

P 020 P 045 P 070 P 626 P 222 P 545 P 565 P 313 P 333 P 323 P 343



#### PATINA STRUCTURE NXT

- ⋯ hydrophobized
- ▨ linear milled
- coloured through

P 020 P 045 P 070 P 626 P 222 P 545 P 565 P 313 P 333 P 323 P 343



#### PATINA ROUGH NXT

- ⋯ hydrophobized
- ▨ roughened
- coloured through

P 020 P 045 P 070 P 222 P 545



# Swisspearl Patina NXT

	Units	6 mm	8 mm	12 mm
<b>Dimension (nominal)</b>				
Thickness	mm	6	8	12
Width*	in	46.38	46.38	46.38
		49.21	49.21	49.21
Length*	in	98.82	98.82	98.82
		120.08	120.08	120.08

\*For specific projects, the panels can be cut to custom dimensions.

## Dimension tolerance (ASTM 1186)

Thickness (up to 0.79 in)	in	+/- 0.024	+/- 0.032	± 1.2
Width (39.4 in < Width < 63.0 in)	in	± 0,3 % a	± 0,3 % a	± 0,3 % a
Length (39.4 in < Width < 63.0 in)	in	± 0,3 % a	± 0,3 % a	± 0,3 % a
Length (63.0 in < Length)	in	+/- 2.0	+/- 2.0	+/- 2.0

a is the nominal width or length

## Physical properties

Density, dry minimum (ASTM 1186)	lb/ft <sup>3</sup>	≥ 87.4	≥ 87.4	≥ 87.4
Density, dry average (ASTM 1186)	lb/ft <sup>3</sup>	96,8	98,0	101,1
Weight (incl. 7,5% moisture)	lb/ft <sup>2</sup>	253	363	531
Moisture content	%	5-10	5-10	5-10

\*Nominal values may vary depending on the conditions

## Mechanical properties

### Bending modulus of elasticity MOE (EN 12467)

E-module average, ambient	GPa	12.8	13.7	13.7
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### Flexural strength (ASTM 1186)

Wet average (ASTM 1186)	psi	5076	5221	5221
Minimum Class (ASTM 1186)	psi	2610	2610	2610

## Colour

Colour variation (CIELAB colour model)	ΔL	-2.5 / +2.5	-2.5 / +2.5	-2.5 / +2.5
Colour resistance to UVA (3000 hrs)	ΔE	2.7	2.7	2.7

## Environmental footprint (EN 15804, ISO 14040 / ISO 14044)

		Original NXT 6, 8, 12	Rough NXT 6, 8, 12
GWP-total (A1-C4)	kgCO <sub>2</sub> -eq	11.6 / 15.5 / 19.4	13.1 / 17.5 / 21.9
GWP-biogenic (A1-C4)	kgCO <sub>2</sub> -eq	0.22 / 0.3 / 0.37	0.24 / 0.32 / 0.40
GWP-fossil (A1-C4)	kgCO <sub>2</sub> -eq	11.4 / 15.2 / 19.0	12.9 / 17.2 / 21.5

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	Units	6 mm	8 mm	12 mm
<b>Thermal properties</b>				
Coefficient of thermal expansion $\lambda_{10}$	mm/m °C	0.01	0.01	0.01
Temperature (air) in use	°C	-40 +80	-40 +80	-40 +80
Frost resistance (max. 100 cycles EN 12467)	RL	RL > 0,75	RL > 0,75	RL > 0,75

<b>Hygrothermal properties</b>				
Water absorption (24 hrs 105 °C, 24 hrs in water)	%	< 25	< 25	< 25
Moisture movement (ASTM 1186)	in	0.06	0.06	0.06

<b>Water vapour transmission properties (EN 12572-C)</b>				
Water vapour transmission resistance (Z-value)	GPa m <sup>2</sup> s/kg	2.4	2.5	1.8
Water vapour transmission resistance (Z-value)	s/m	17700	18500	NA
Water vapour diffusion equivalent air layer thickness	Sd(m)	0.5	0.5	NA
Water vapour resistivity	MN s/gm	366	327	320
Water vapour resistance factor	$\mu$	58	58	NA
Water vapour resistance	MN s/g	2.4	2.5	NA
Water vapour transmission	USPerm	7.2	7.0	NA

<b>Fire performance</b>				
Reaction to fire (EN 13501-1)	Rating	A2-s1, d0		
Fire performance (NFPA 285)		Passed		
Behaviour of materials at 750 °C (ASTM E 136)		Passed		
Fire performance (ASTM E84)	Rating	Class A (Does not ignite)		

\*Installation principles determine the classification, contact product compliance for further information

<b>Other properties</b>				
Category, class ASTM 1186	Type A, class IV	Type A, class IV	Type A, class IV	
M1-Classification, VOC emission, EN 16516:2017 + A1:2020	Approved	Approved	Approved	
REACH (EC) No. 1907/2006	Compliant	Compliant	Compliant	

<b>Impact resistance test (EAD 090062-01-0404) 8 mm, 12 mm</b>					
		Category IV	Category II	Category II	Category I
Hard body	1 Joule	Passed			
	3 Joule		Passed	Passed	Passed
	10 Joule			Passed	Passed
Soft body	10 Joule	Passed	Passed		
	60 Joule			Passed	Passed
	300 Joule			Passed	
	400 Joule				Fail
Evaluation		Passed	Passed	Passed	Fail

**Impact end use category (EAD 090062-01-0404)** 8 mm Category II-a\*

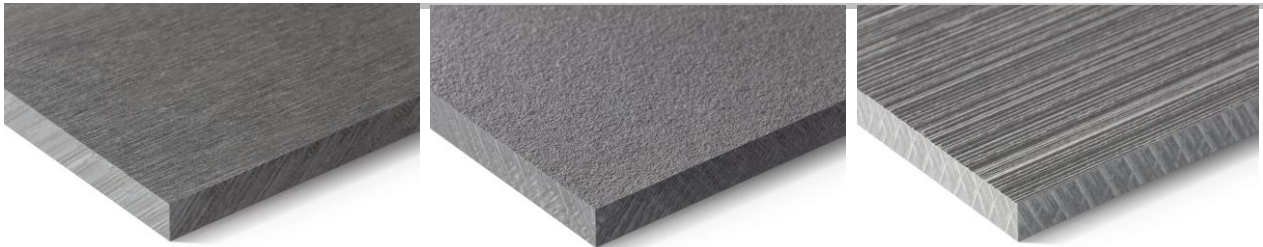
\*Installation principles determine the classification, contact product compliance for further information

# Swisspearl Patina NXT

**PATINA ORIGINAL NXT**

**PATINA ROUGH NXT**

**PATINA STRUCTURE NXT**



## Certifications

In compliance with European Regulation No. 305/2011 (Construction Products Regulation – CPR), the manufacturer provides a Declaration of Performance (DoP) for the product, confirming that it bears the CE marking. This marking indicates that the product meets the essential requirements set out in the relevant harmonized European standard. The Declaration of Performance, issued under the CPR, is available at [www.swisspearl.com](http://www.swisspearl.com).



Patina Structure NXT will be launched in all certifications.

ISO 9001:2015 QMS Certification

ISO 14001:2015 EMS Certification

ISO 45001:2018 OHSM Certification

## Disclaimer

This Technical Data Sheet reflects typical values based on current production. While we aim to maintain consistent quality, minor variations may occur. Please note that all values have an AQL level and a tolerance, also in relation to EN 12467. Key performance indicators (KPIs) are monitored and reviewed annually to ensure product reliability and continuous improvement.

The information is provided as a general guide and may be updated without notice. We recommend validating the product for your specific application before use, e.g., compatibility between Swisspearl products, including the Swisspearl fixing system (if any), and any underlying support system or support structure.

The material is made from natural raw materials; each individual fibre-cement product has its own unique look and texture. Spots, inclusions, impurities, and irregularities can occur, such as uneven surfaces or textures, which are part of the product's appearance. The product's appearance does not affect the strength and durability of fibre-cement products. Over the years, the appearance of fibre-cement products will change as a result of exposure to environmental factors. Note: If any recipe or production process changes, the verification period is revised accordingly.

The specifications are not exhaustive, and Swisspearl's local general guidelines regarding installation must always be taken into account.

The values given are typical values.

\*at the bottom of the section

NA: Not applicable

NR: Not relevant

NOTE: All values given in this document are taken from nominal dimensions, tolerance will apply